	Application No.	Applicant(s)
	10/005,065	KRASULICK ET AL.
Notice of Allowability	Examiner	Art Unit
	James A. Menefee	2828
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to <u>amendment filed 12/16/04</u> .		
2. The allowed claim(s) is/are <u>1-33</u> .		
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) ☐ All b) ☐ Some* c) ☐ None of the:		
Certified copies of the priority documents have been received.		
2. Certified copies of the priority documents have been received in Application No		
3.  Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of		
Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
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Attachment(s)		
1. ☑ Notice of References Cited (PTO-892)	5. Notice of Informal P	atent Application (PTO-152)
2.  Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary Paper No./Mail Dat	
3. Information Disclosure Statements (PTO-1449 or PTO/SB/0	<ol><li>7. \(\sumeq\) Examiner's Amenda</li></ol>	nent/Comment
Paper No./Mail Date 5/19/03; 6/30/04; 7/5/05; 7/29/05  4. Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's Stateme	ent of Reasons for Allowance
of Biological Material	9. 🔲 Other	

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#### **DETAILED ACTION**

# Response to Amendment

In response to the amendment filed 12/16/2004, the specification, abstract, and claims 1, 4-9, 11, 13-14, 23-24, and 28-32 are amended. Claim 33 is added. Claims 1-33 are pending.

### Allowable Subject Matter

Claims 1-33 are allowed. The following is an examiner's statement of reasons for allowance:

Regarding claim 1, there is not taught or disclosed in the prior art an EAM comprising a semiconductor layer where a transmission response of the modulator as a function of applied voltage shifts with increase in operating temperature so that the layer is transparent to light propagating when a zero or reverse bias is applied at operating temperatures substantially greater than 25 degrees Celsius.

For example, the typical prior art EAM must be positively biased in order to operate at temperatures substantially greater than 25 degrees. Reverse biased operation is preferred, therefore the prior art EAM typically includes a cooler so that the operating temperature does not go substantially above about 25 degrees. Since the present EAM can remain reverse biased at higher temperatures, no external cooler is needed. See applicant's discussion of the prior art, present specification, particularly pars. [0046] – [0049].

The remaining independent claims describe systems including lasers and the above EAM, and are allowable for the same reasons.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

## Response to Arguments

Applicant's arguments filed 12/16/2004 have been fully considered and are persuasive. The previous rejection is withdrawn because applicant's admitted prior art (the rejection used par. [0041]) does not suggest the feature of operating temperatures of substantially greater than 25 degrees.

#### Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The references cited in this action disclose EAMs either operating at room temperature (i.e. 25 degrees) or without specifying operating temperature.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to James A. Menefee whose telephone number is (571) 272-1944. The examiner can normally be reached on M-F 8:30-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, MinSun Harvey can be reached on (571) 272-1835. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

James Menefee June 26, 2006

JAMES MENEFEE PRIMARY EXAMINER